T0920T"SS80001

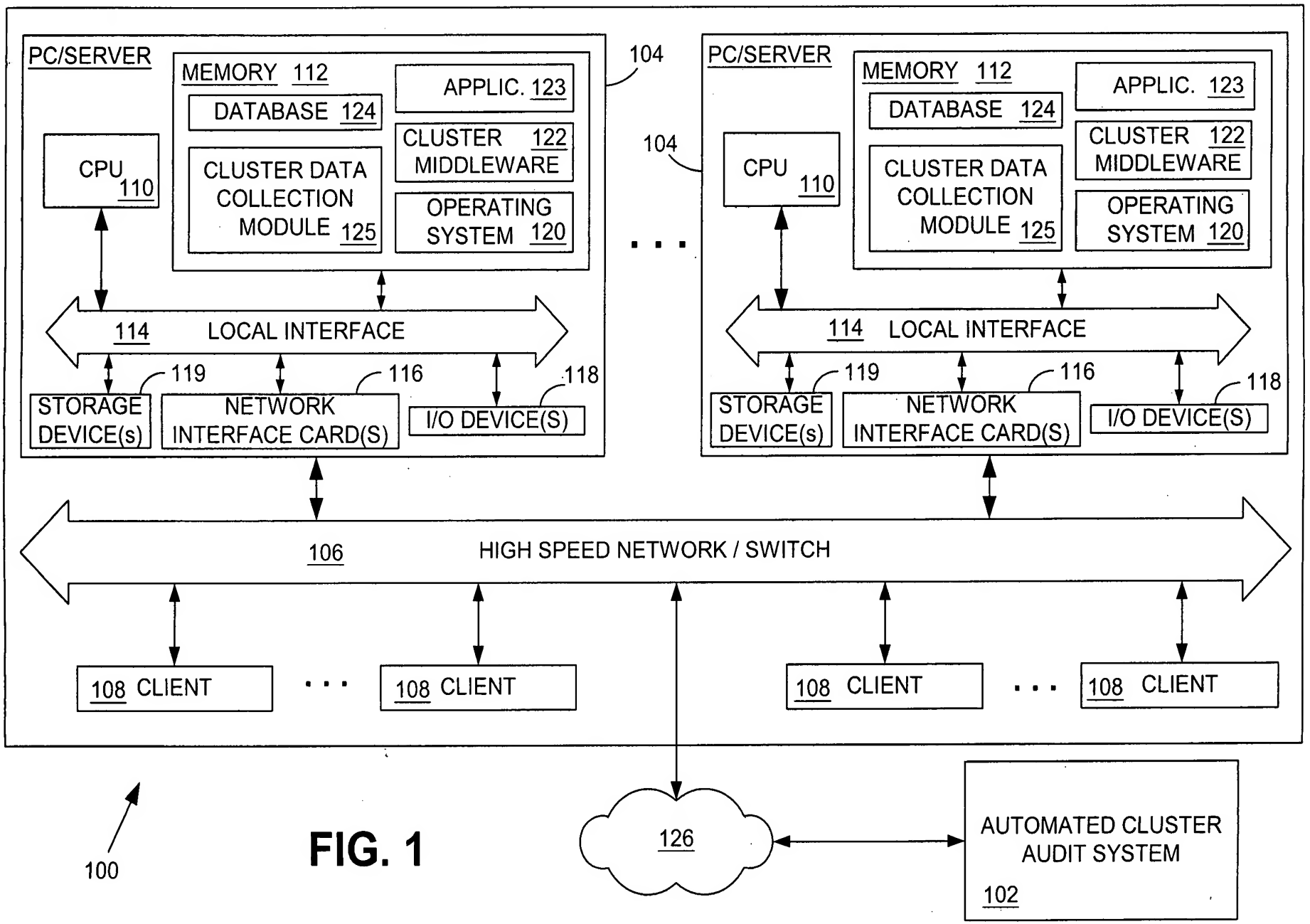

FIG. 1

Systems and Methods for Providing ...
Inventor(s): Wong et al.; Docket No.: 100110541-1
1 of 11

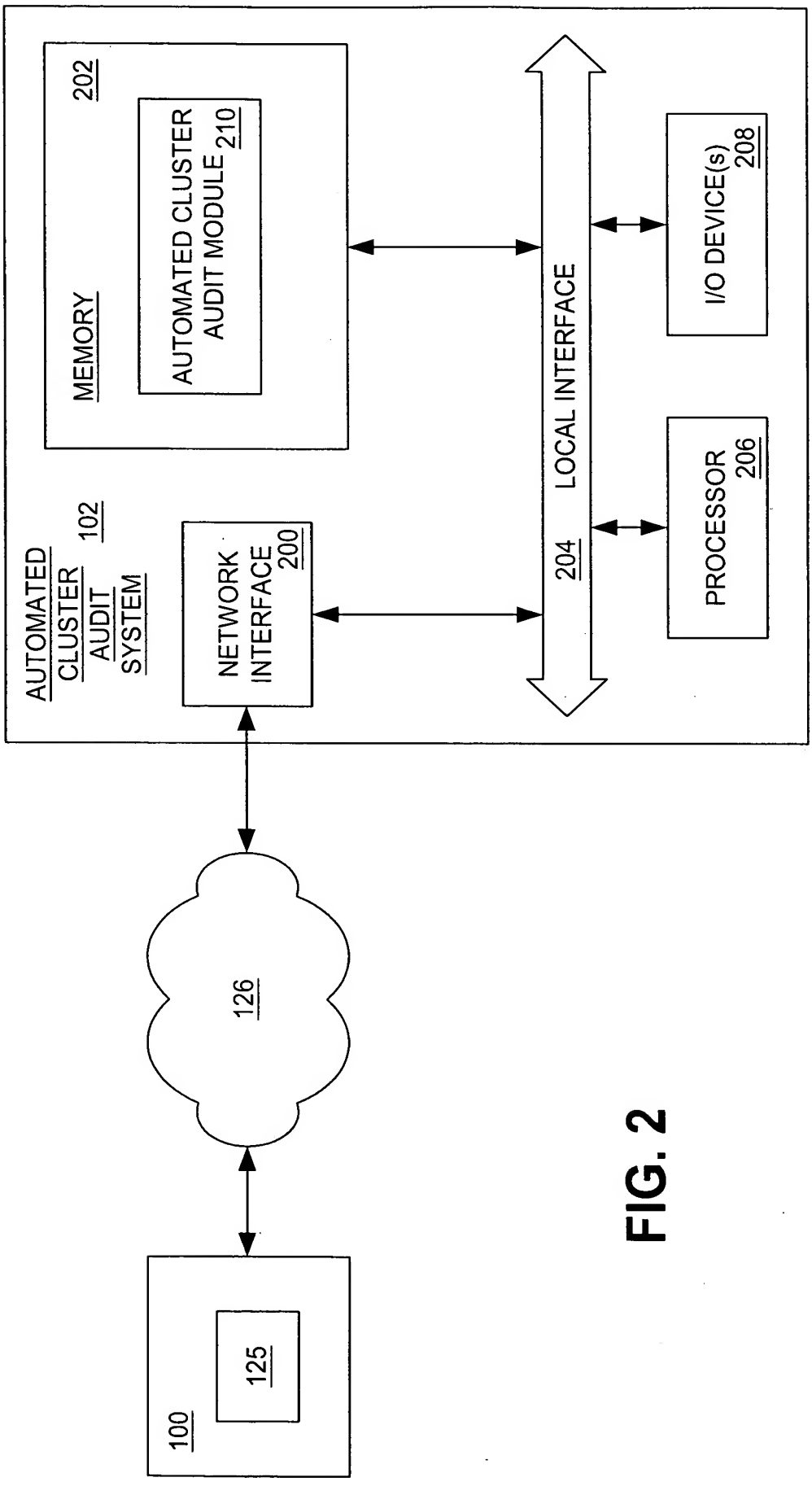
AUTOMATED CLUSTER AUDIT SYSTEM 102
MEMORY 202
AUTOMATED CLUSTER AUDIT MODULE 210
NETWORK INTERFACE 200
LOCAL INTERFACE 204
PROCESSOR 206
I/O DEVICE(s) 208
126
100
125

FIG. 2

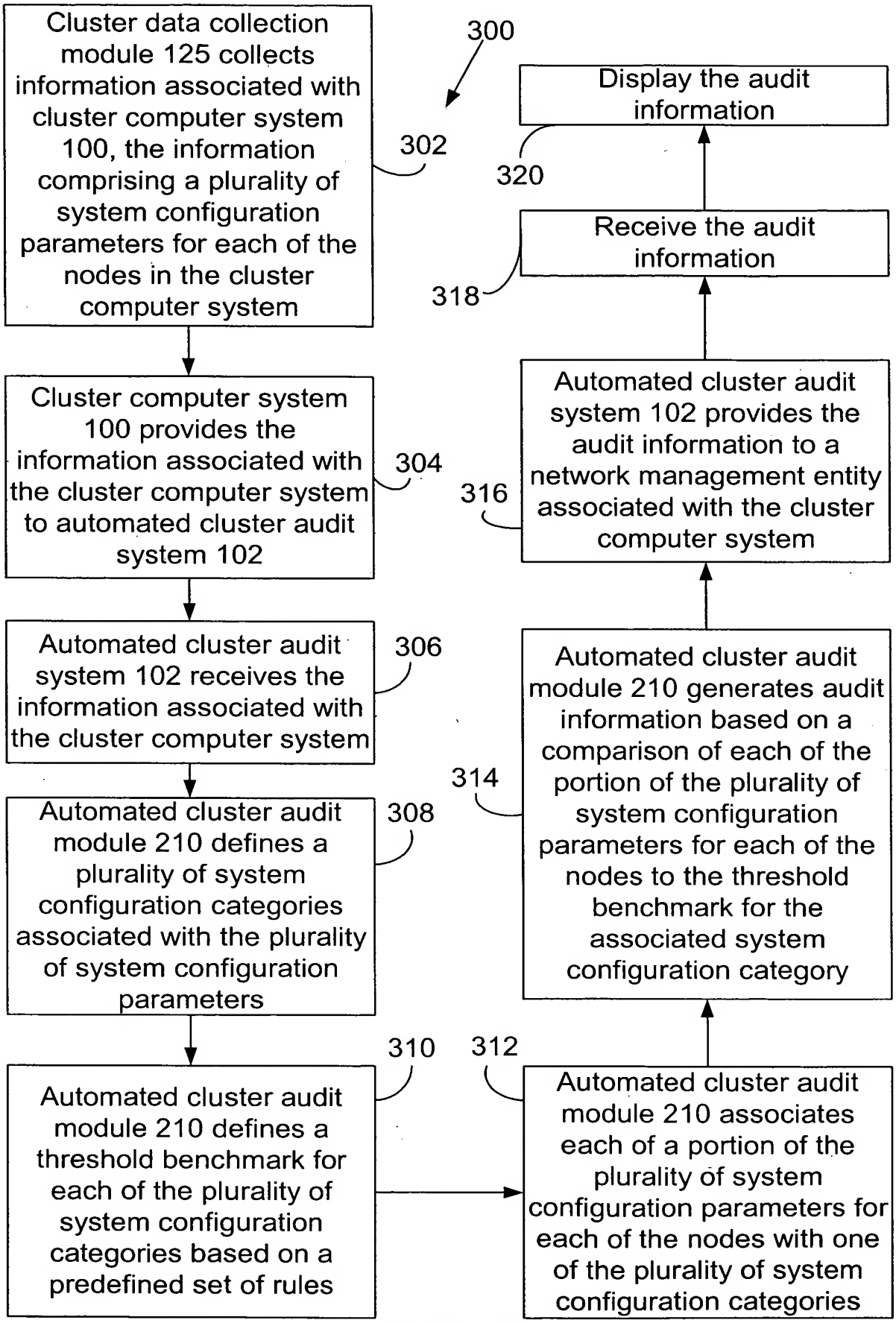

FIG. 3

100110541-1

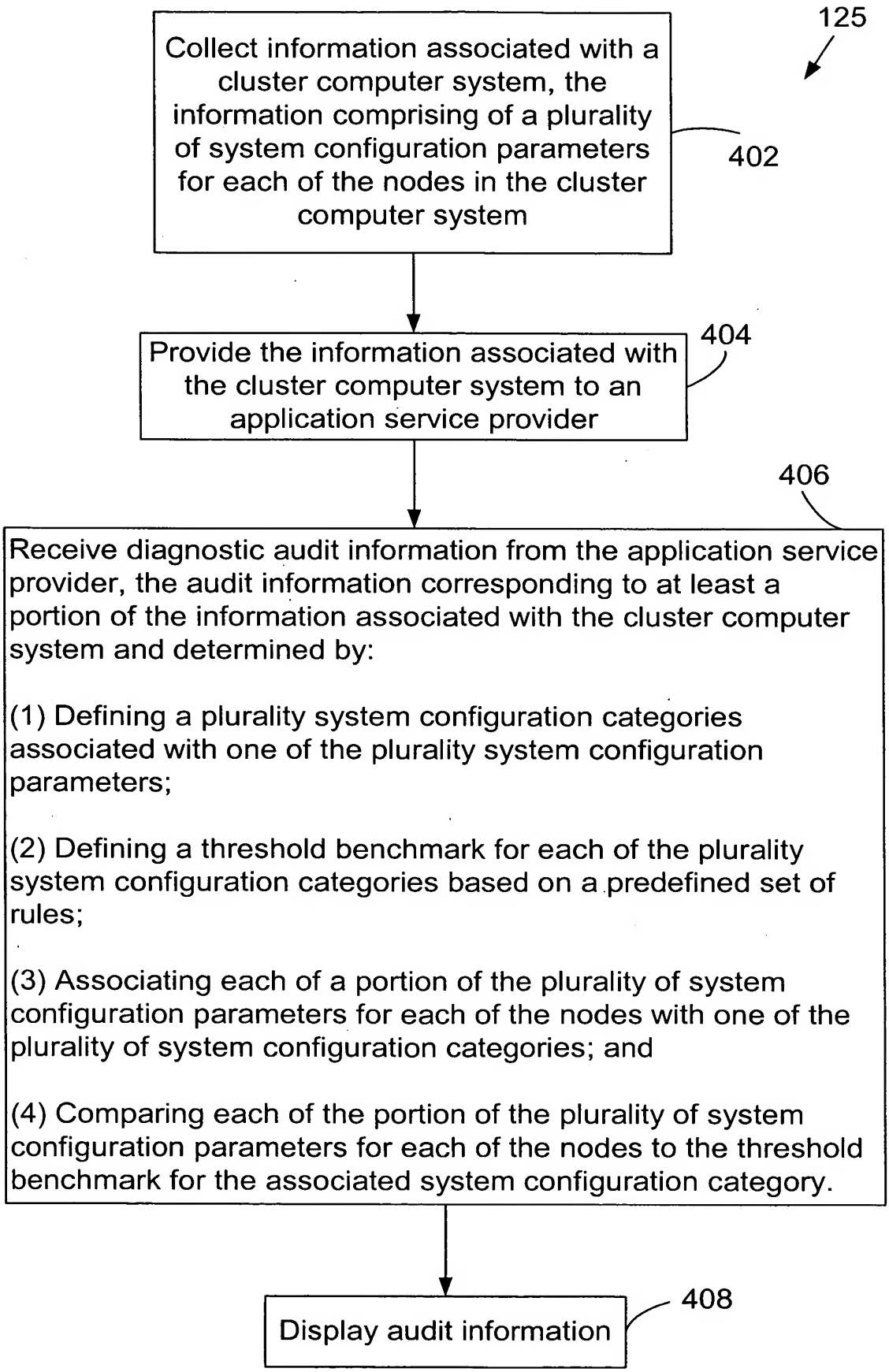

FIG. 4

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500

NODE 502	CPU 504	RAM 506	Swap 508	Disk 510	Net Card 512	O/S Rev 514	Patch 516	Apps 518	Users 520	Cluster S/W 522
NODE 1	A	A	B	B	A	C	A	B	B	U
NODE 2	A	A	B	B	C	C	A	B	B	B
NODE 3	A	A	A	B	B	A	B	A	A	A
NODE 4	A	A	A	A	B	A	B	B	C	U
NODE 5	A	A	B	B	A	C	A	B	B	B
NODE 6	A	A	B	B	A	C	A	B	B	B

(A) Conforms, (B) Warning, (C) Issue; (U)nknown

FIG. 5

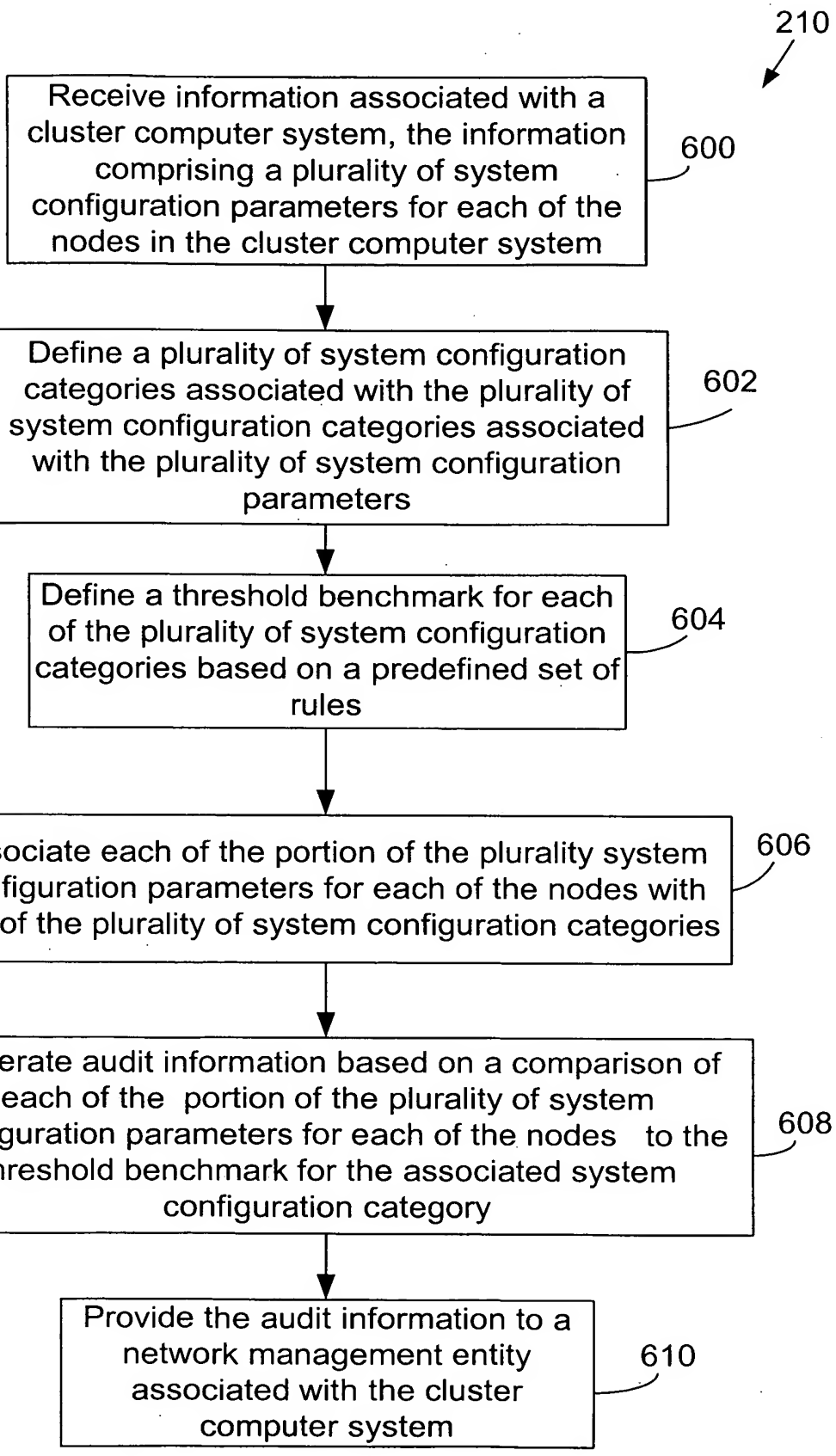

FIG. 6

HP Docket No. 100110541-1

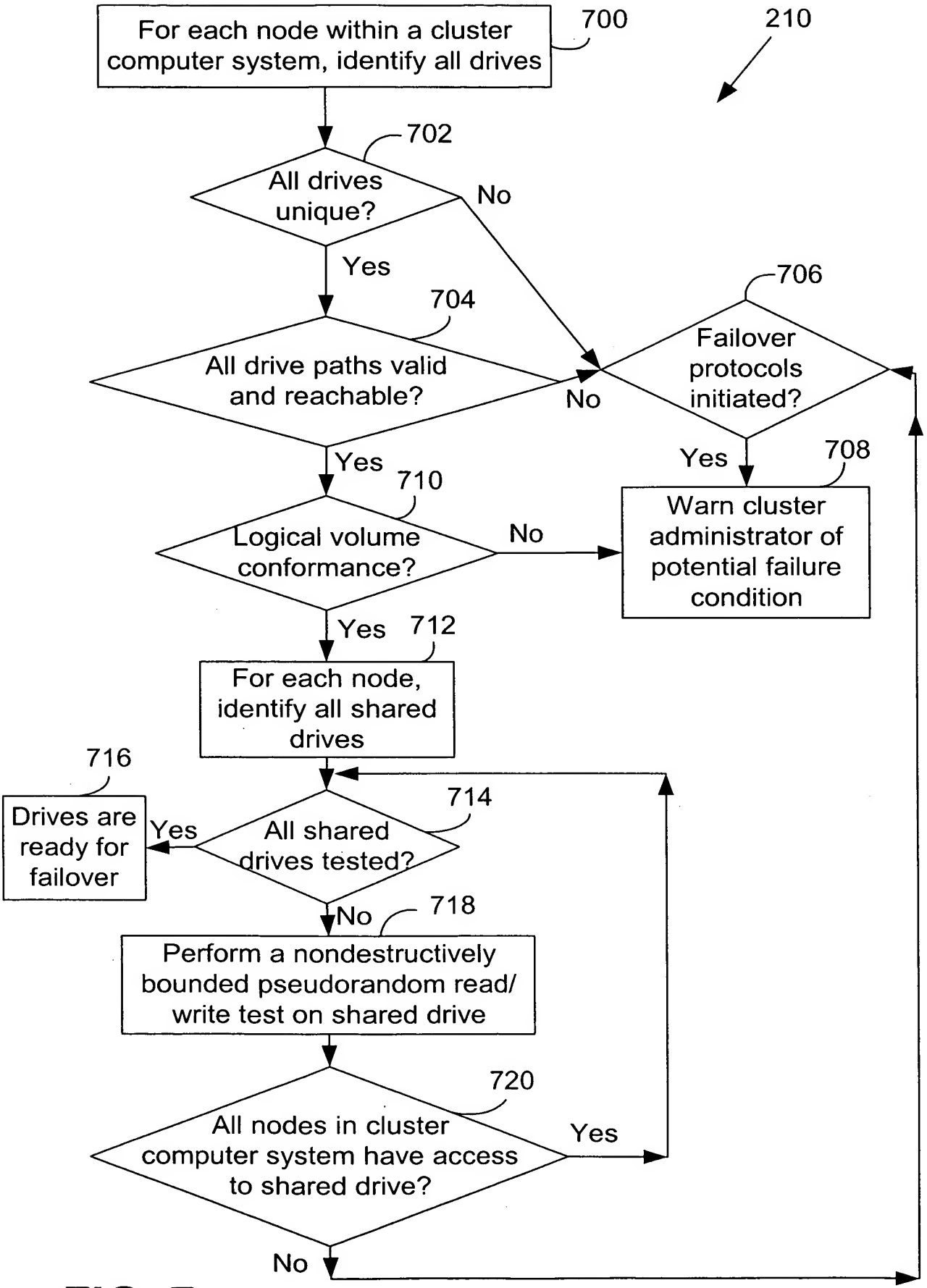

FIG. 7

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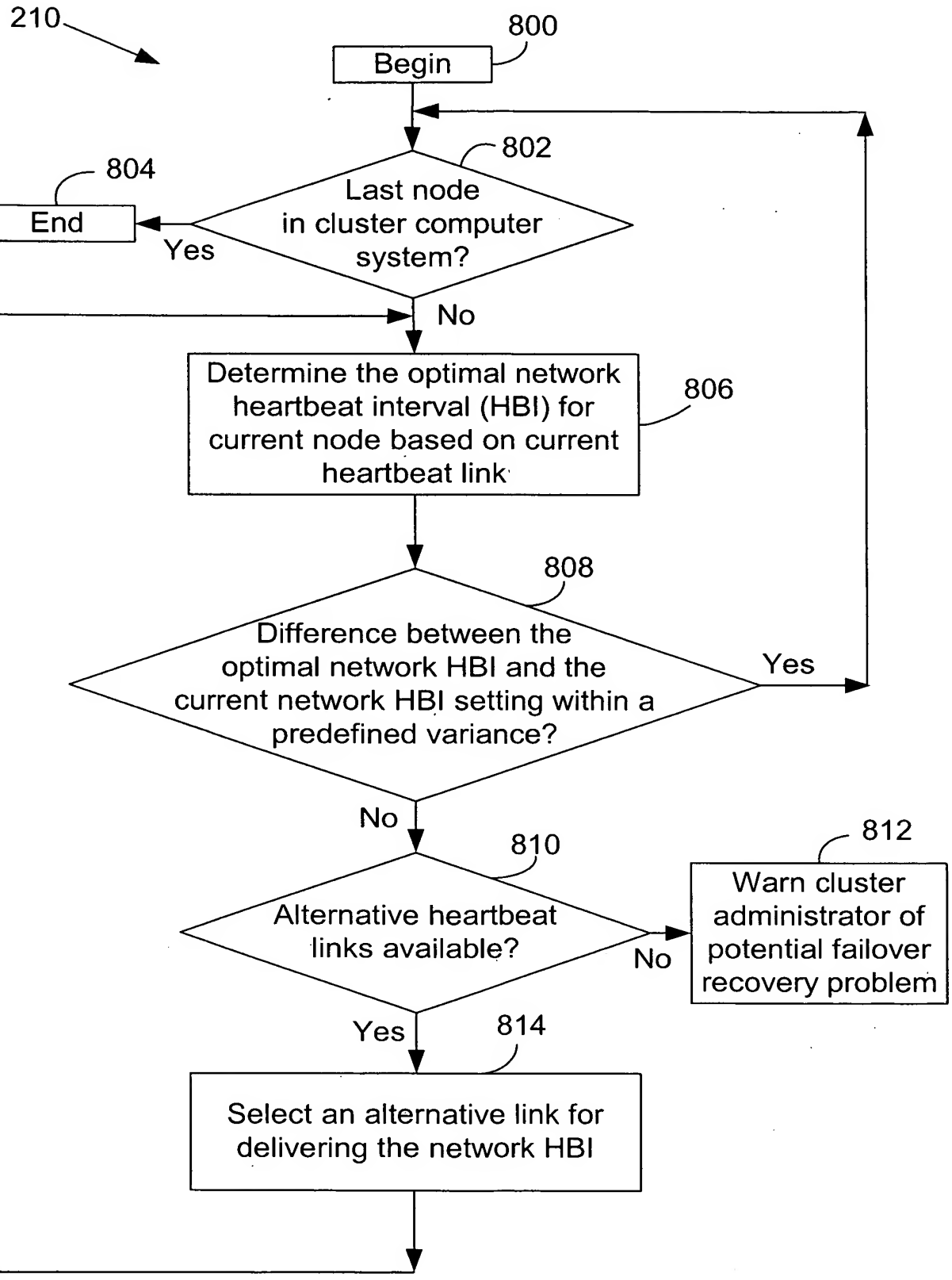
210
800
Begin
802
Last node in cluster computer system?
804
End
Yes
No
Determine the optimal network heartbeat interval (HBI) for current node based on current heartbeat link
806
808
Difference between the optimal network HBI and the current network HBI setting within a predefined variance?
Yes
No
810
Alternative heartbeat links available?
812
Warn cluster administrator of potential failover recovery problem
No
Yes
814
Select an alternative link for delivering the network HBI

FIG. 8

100110541-1

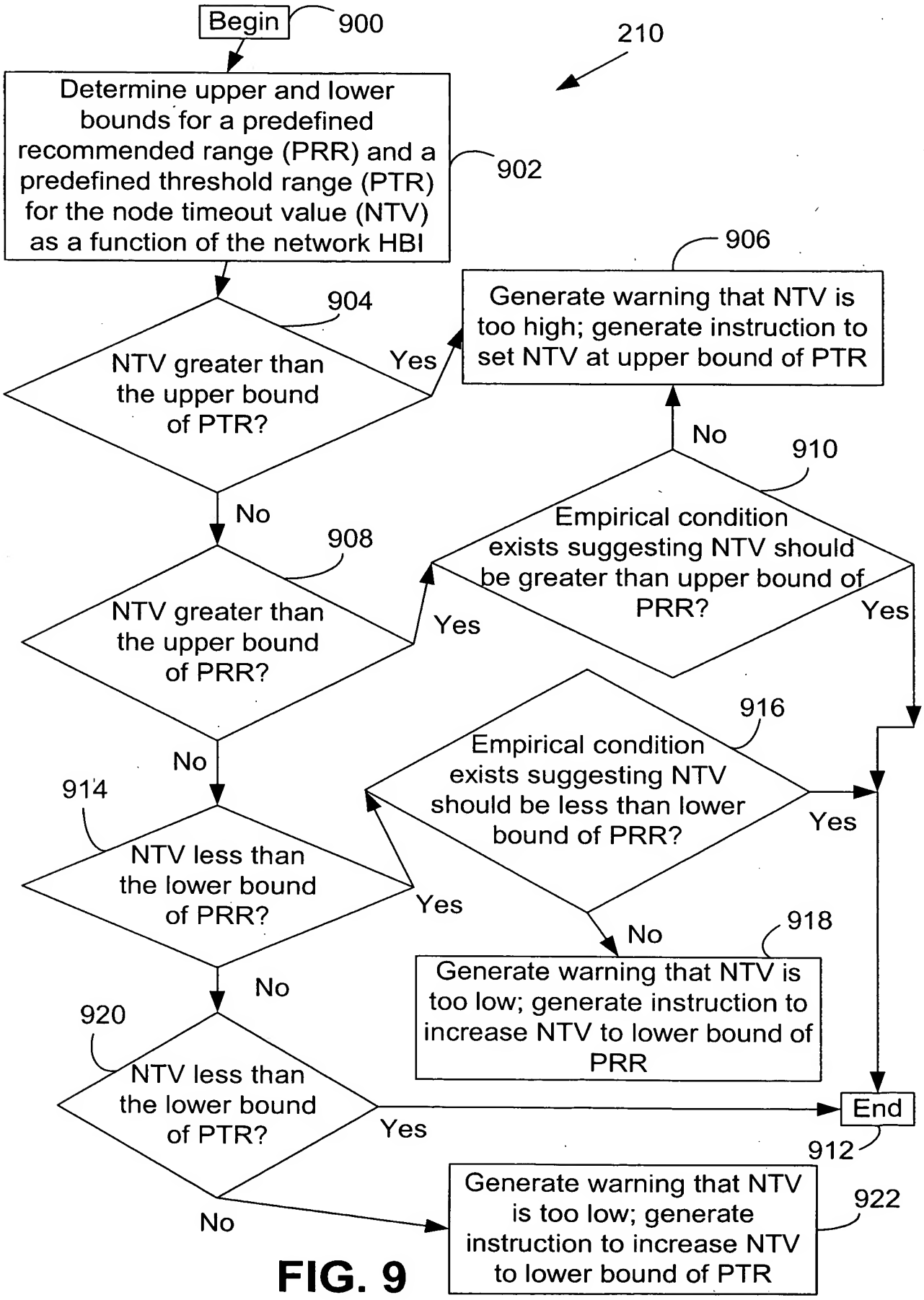

FIG. 9

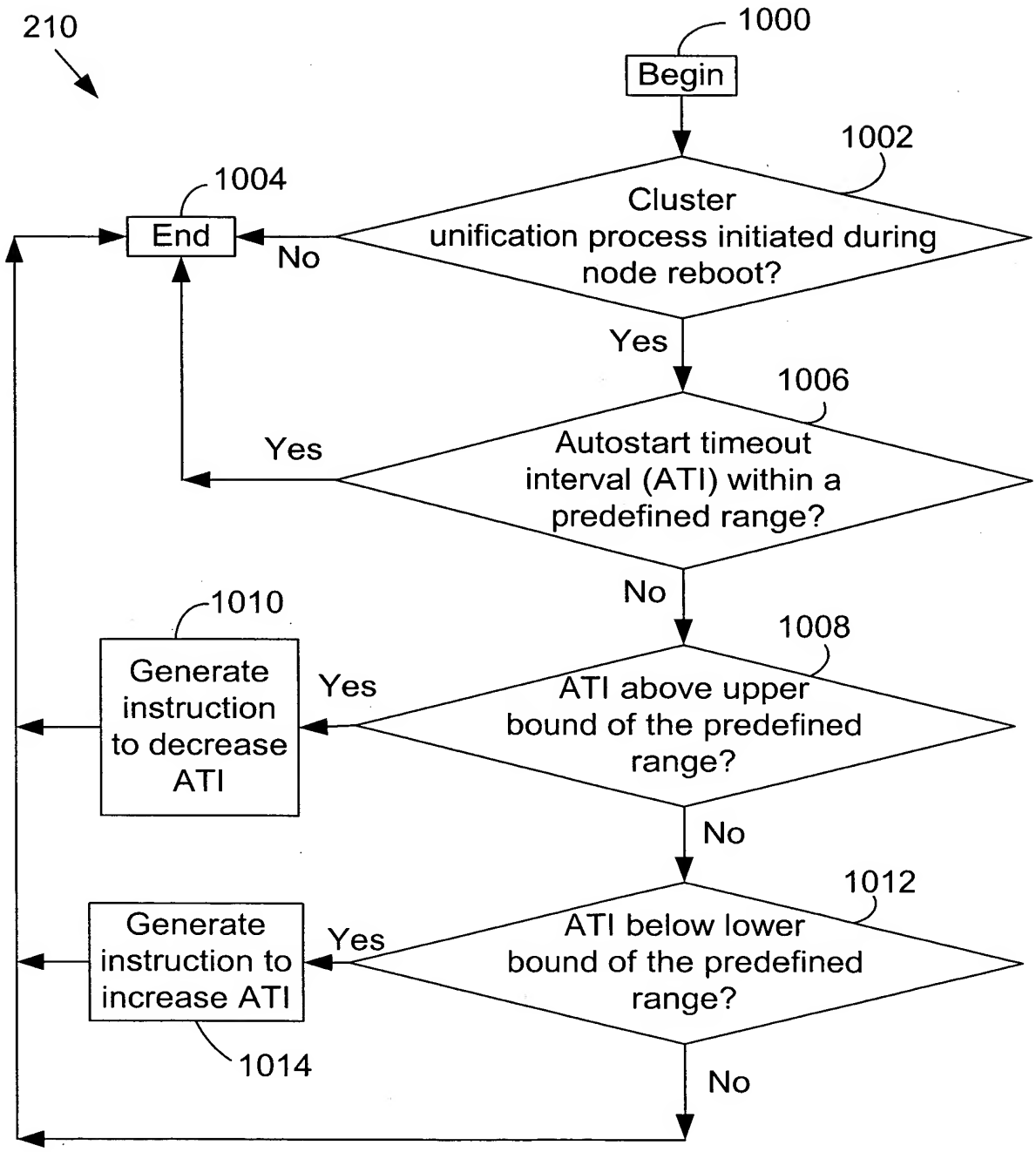
210
1000
Begin
1002
Cluster unification process initiated during node reboot?
No
1004
End
Yes
1006
Autostart timeout interval (ATI) within a predefined range?
Yes
No
1008
ATI above upper bound of the predefined range?
Yes
1010
Generate instruction to decrease ATI
No
1012
ATI below lower bound of the predefined range?
Yes
Generate instruction to increase ATI
1014
No

FIG. 10

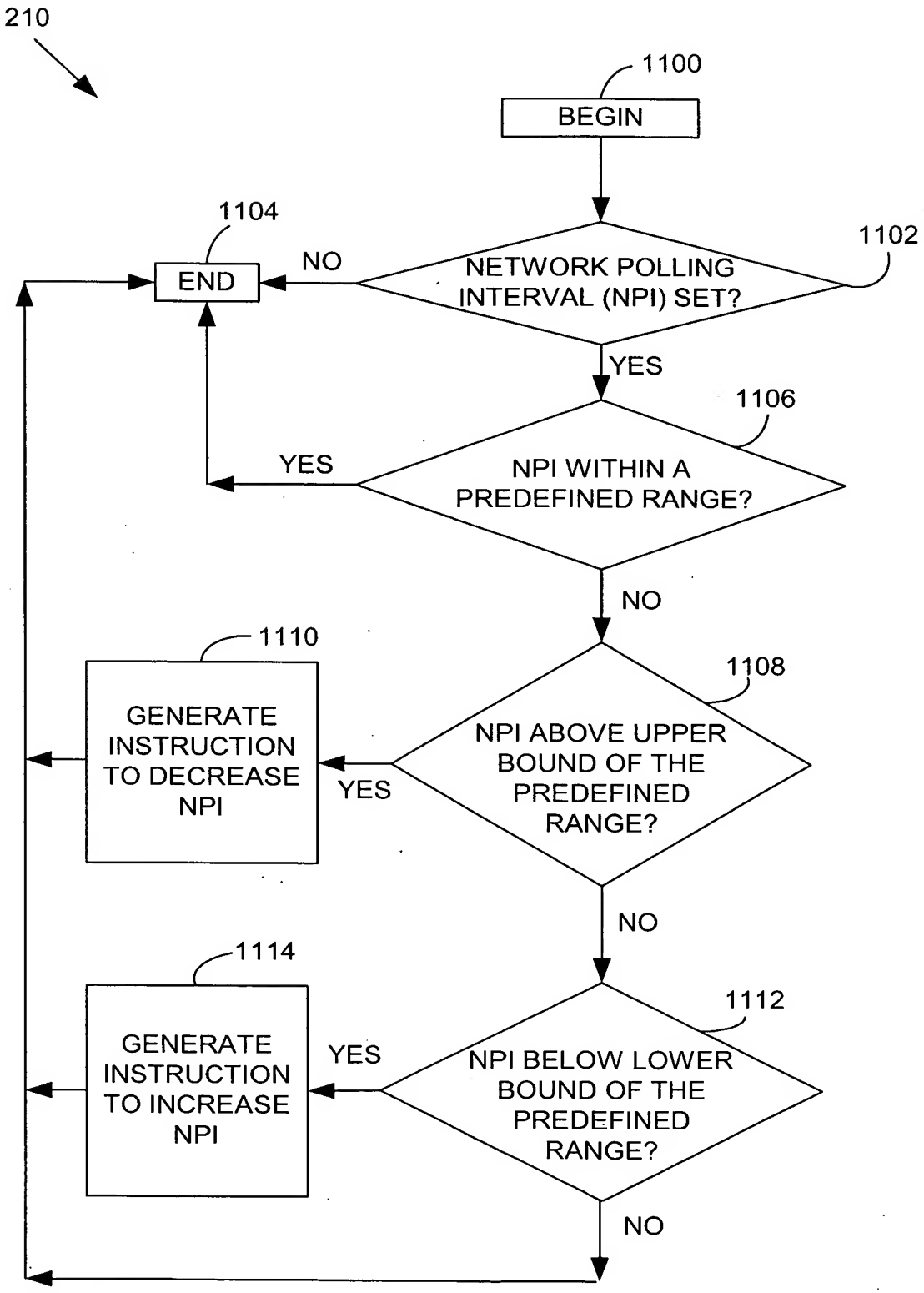
210
1100
BEGIN
1102
NETWORK POLLING INTERVAL (NPI) SET?
NO
1104
END
YES
1106
NPI WITHIN A PREDEFINED RANGE?
YES
NO
1108
NPI ABOVE UPPER BOUND OF THE PREDEFINED RANGE?
YES
1110
GENERATE INSTRUCTION TO DECREASE NPI
NO
1112
NPI BELOW LOWER BOUND OF THE PREDEFINED RANGE?
YES
1114
GENERATE INSTRUCTION TO INCREASE NPI
NO

FIG. 11